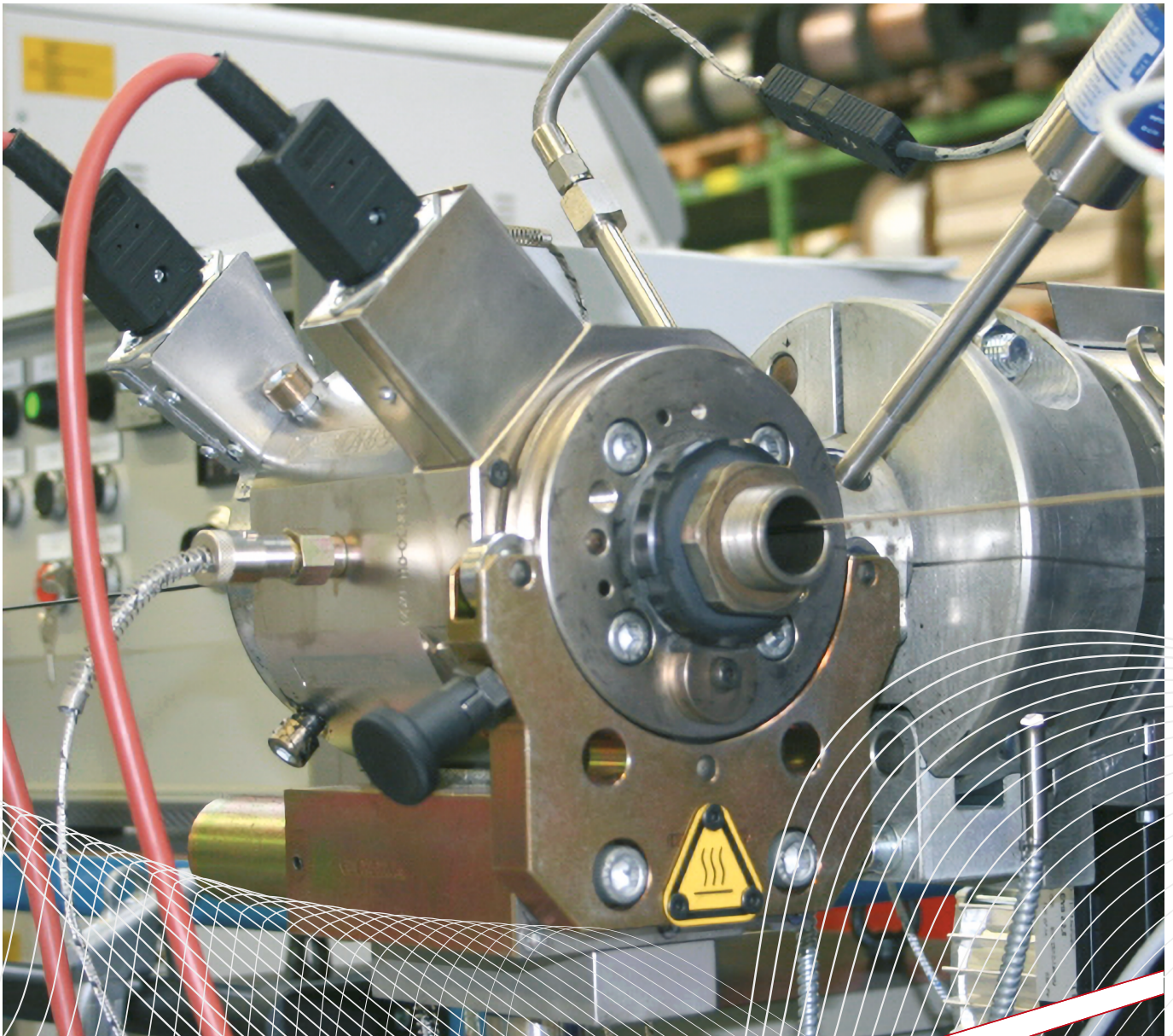


# SYSTEM- OVERVIEW



## ELKM

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## Reservation

Subject to technical changes. Changes, errors and misprints do not constitute grounds for claims for damages. For safety components and systems, the assembly instructions as well as the relevant and currently valid standards and regulations must be observed.

|                                                                                                                             |                                   |                |                             |            |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------|-----------------------------|------------|
| eltherm GmbH<br>Ernst-Heinkel-Str. 6-10<br>57299 Burbach<br>T.: +49 2736 4413-0<br>F.: +49 2736 4413-50<br>info@eltherm.com | Document:<br><b>8643010TB0001</b> |                | <b>System overview ELKM</b> |            |
|                                                                                                                             |                                   |                |                             |            |
|                                                                                                                             | Autor:                            | Detlef Matthes | Datum:                      | 10.05.2023 |
|                                                                                                                             | Revision: <b>1</b>                | Jonas Schmidt  | Datum:                      | 20.04.2026 |

## INTRODUCTION

This system overview is intended to provide a compact overview of the ELK systems and their components - please refer to the respective data sheets for detailed information on the products. The system overview focuses on the products that are absolutely necessary for a functioning heating circuit. Accessories are not dealt with separately - information on these can be found in the accessory data sheets. The flexible ELKM serial resistance trace heaters are suitable for use in a wide range of applications. The ELKM trace heaters are characterised by their small external dimensions, high flexibility and high chemical and thermal resistance. The main areas of application for ELKM trace heaters are processes in which a constant temperature must be ensured in pipelines, containers and installations. Another important application is the frost protection of pipelines, pumps, valves and containers. The small external dimensions and the associated bending radii of the trace heaters allow for easy installation and optimum use even with small components. Due to the wide range of specific resistance values, ELKM trace heaters are suitable for very short heating circuits up to a heating circuit length of 1 km. ELKM trace heaters are available with different approvals for use in hazardous areas as well as for use in safe areas.

### ADVANTAGES

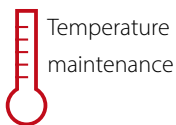
- › High flexibility
- › High temperature resistance
- › Small bending radii
- › High operating temperatures
- › High chemical resistance
- › Constant power output

### APPROVALS



## APPLICATIONS

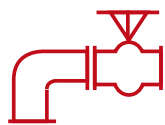
### Application areas



Temperature  
maintenance



Frost  
prevention



Valves, pumps



Pipelines



Silos, vessels,  
tanks



Antenna



Container



Rails and  
switches



Open spaces

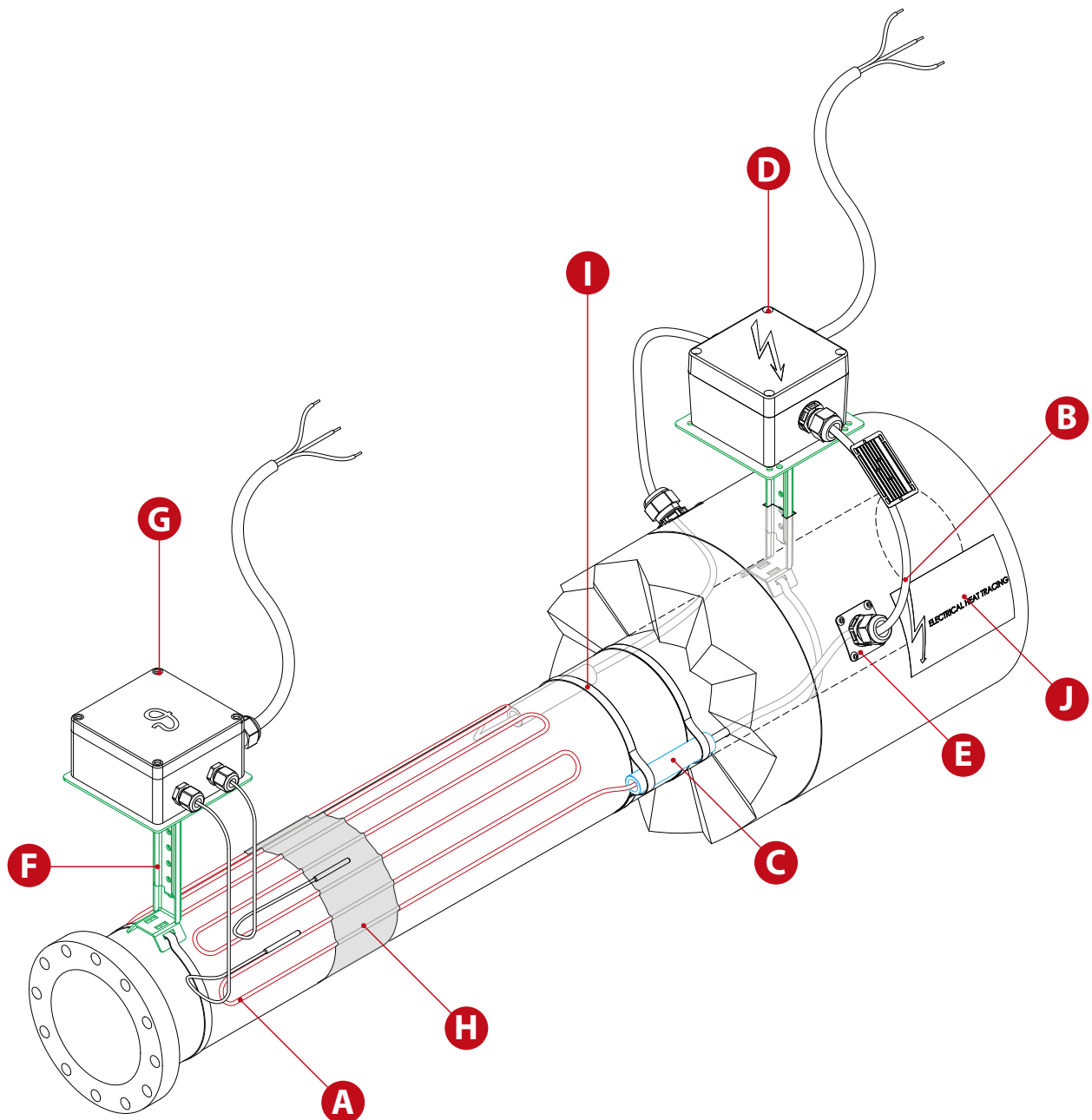


Special solutions

- › Bottling systems
- › Exhaust systems
- › Plant engineering
- › Antenna heating
- › Fittings heating
- › Coating systems
- › Biotechnology
- › Bitumen plants
- › Chem. process engineering
- › Container heating
- › Energy production
- › Extruders
- › Grease transport
- › Surface heating
- › Mould making
- › Floor heating
- › Cartridge heaters
- › Adhesive technology
- › Plastics technology
- › Laboratory technology
- › Food production
- › Mechanical engineering
- › Medical technology
- › Waste incineration plants
- › Surface technology
- › Organic chemistry
- › Parabolic mirror heating
- › Presses
- › Foaming plants
- › Shipbuilding
- › Transport technology
- › Door frame heating
- › Connection technology
- › Process engineering
- › Loading arms
- › Packaging industry
- › Heat recovery systems
- › and many more

## SYSTEM DESIGN

|   |                    |               |   |                      |                |
|---|--------------------|---------------|---|----------------------|----------------|
| A | Trace heater ELKM  | Page 5 to 6   | F | Mounting bracket     | Page 17        |
| B | Connection cable   | Page 7        | G | Controller / limiter | see data sheet |
| C | Connection set     | Page 8 to 11  | H | Adhesive tape        | see data sheet |
| D | Junction box       | Page 11 to 16 | I | Tension tape         | see data sheet |
| E | Insulation Bushing | Page 16       | J | Warning sign         | see data sheet |



Schematic diagram

### NOTE

To determine your required heating capacity, you can also use our free design software, "eltherm designer," which identifies various types of heating cables that are suitable for your specific application and provides you with a corresponding order list that you can export.

You can download eltherm designer for free at the following link: <https://eltherm.com/de/eltherm-designer>

## (A) TRACE HEATER ELKM

| Parameter                            | ELKM-A | ELKM-AS | ELKM-AE | ELKM-AG | ELKM-AG-E | ELKM-AG-L | ELKM-AG-N |
|--------------------------------------|--------|---------|---------|---------|-----------|-----------|-----------|
| Insulation Fluoropolymer             | ✓      | ✓       | ✓       | ✓       | ✓         | ✓         | ✓         |
| Outer jacket Fluoropolymer           | ✗      | ✗       | ✗       | ✓       | ✓         | ✓         | ✓         |
| Braid Cu Nickel plated               |        | ✓       |         | ✓       | ✓         | ✓         | ✓         |
| Braid VA1.4401/ SS316                |        |         | ✓       |         |           |           |           |
| without braiding                     | ✓      |         |         |         |           |           |           |
| Max. operation temperatur            | 260°C  | 260°C   | 260°C   | 260°C   | 260°C     | 260°C     | 260°C     |
| Nominal Voltage                      | 750 V  | 750 V   | 750 V   | 750 V   | 750 V     | 750 V     | 550 V     |
| max. power output* <sup>1</sup>      | 30 W/m | 30 W/m  | 30 W/m  | 30 W/m  | 30 W/m    | 30 W/m    | 30 W/m    |
| min. bending radius (x Outer-Ø)      | 2,5    | 2,5     | 2,5     | 2,5     | 2,5       | 2,5       | 2,5       |
| min. installation temperature        | - 60°C | - 60°C  | - 60°C  | - 60°C  | - 60°C    | - 60°C    | - 60°C    |
| Ex-approved                          |        |         |         | Ex      | Ex        |           | Ex        |
| VDE approved                         |        |         |         |         |           | VE        |           |
| Impact resistant                     |        |         |         | 7 Joule | 4 Joule   |           | 4 Joule   |
| Construction stranded * <sup>2</sup> | ✓      | ✓       | ✓       | ✓       | ✓         | ✓         | ✓         |

### NOTE

- \*<sup>1</sup> The output per meter of heating cable and the maximum possible operating temperatures depend on the respective application. For individual cases, we recommend that you contact our engineers we will be pleased to advise you.
- \*<sup>2</sup> ELKM above 8000 Ω/km spiralled coiled (only on request).
- Cables shall neither intersect nor contact.
- Provide protection by means of circuit breaker FI 30.
- Please observe the standards IEC 62395-2, EN 60519-10.

## Available resistances

| Resistance<br>$\Omega/\text{km}$ | ELKM-A | ELKM-AS | ELKM-AE | ELKM-AG | ELKM-AG-E | ELKM-AG-L | ELKM-AG-N |
|----------------------------------|--------|---------|---------|---------|-----------|-----------|-----------|
| 1,95                             | X      | X       | X       |         |           | X         | X         |
| 2,90                             | X      | X       | X       |         |           | X         | X         |
| 4,40                             | X      | X       | X       |         | X         | X         | X         |
| 7,20                             | X      | X       | X       |         | X         | X         | X         |
| 10,00                            | X      | X       | X       |         | X         | X         | X         |
| 11,70                            | X      | X       | X       | X       | X         | X         | X         |
| 15,00                            | X      | X       | X       |         | X         | X         | X         |
| 25,00                            |        |         | X       |         | X         | X         | X         |
| 31,50                            | X      | X       | X       |         | X         | X         | X         |
| 50,00                            | X      | X       | X       | X       | X         | X         | X         |
| 65,00                            | X      | X       | X       | X       | X         | X         | X         |
| 80,00                            | X      | X       | X       | X       | X         | X         | X         |
| 100,00                           | X      | X       | X       | X       | X         | X         | X         |
| 157,00                           | X      | X       | X       | X       | X         | X         | X         |
| 180,00                           | X      | X       | X       | X       | X         | X         | X         |
| 200,00                           | X      | X       | X       | X       | X         | X         | X         |
| 260,00                           | X      | X       | X       | X       | X         | X         | X         |
| 280,00                           | X      | X       | X       | X       | X         | X         | X         |
| 328,00                           | X      | X       | X       |         |           | X         | X         |
| 340,00                           |        |         |         | X       | X         |           |           |
| 360,00                           | X      | X       | X       | X       | X         | X         | X         |
| 430,00                           | X      | X       | X       | X       | X         | X         | X         |
| 480,00                           | X      | X       | X       | X       | X         | X         | X         |
| 600,00                           | X      | X       | X       | X       | X         | X         | X         |
| 800,00                           | X      | X       | X       | X       | X         | X         | X         |
| 1000,00                          | X      | X       | X       | X       | X         | X         | X         |
| 1470,00                          | X      | X       | X       | X       | X         | X         | X         |
| 1750,00                          | X      | X       | X       | X       | X         | X         | X         |
| 1900,00                          | X      | X       | X       | X       | X         | X         | X         |
| 2900,00                          | X      | X       | X       | X       | X         | X         | X         |
| 4000,00                          | X      | X       | X       | X       | X         | X         | X         |
| 4700,00                          | X      | X       | X       | X       | X         | X         | X         |
| 6000,00                          | X      | X       | X       | X       | X         | X         | X         |
| 7000,00                          | X      | X       | X       | X       | X         | X         | X         |
| 8000,00                          | X      | X       | X       | X       | X         | X         | X         |

### NOTE

- Other resistances are available upon request.
- Heating element construction with a resistance of 8000  $\Omega/\text{km}$  or higher (coiled) (available upon request—please contact our engineers).

## (B) - TEMPERATURE RESISTANT COLD ENDS

This section provides information on the permissible combinations of the connection cables with the respective ELKM Types.

### Cold ends 1,5 mm<sup>2</sup>

| Type                      | ELKM-A  | ELKM-AS | ELKM-AE | ELKM-AG  | ELKM-AG-E | ELKM-AG-L | ELKM-AG-N |
|---------------------------|---------|---------|---------|----------|-----------|-----------|-----------|
| Article N°.               |         |         |         |          |           |           |           |
| ELKM-A 11,70              | 0911048 |         |         |          |           |           |           |
| ELKM-AS 11,70             |         | 0136010 |         |          |           |           |           |
| ELKM-AE 11,70             |         |         | 0137011 |          |           |           |           |
| ELKM-AG 11,70             |         |         |         | 01GA011E |           |           |           |
| ELKM-AG-N 11,70           |         |         |         | 01TA007E |           |           |           |
| ELKM-AG-E 11,70           |         |         |         |          | 01AA011E  |           |           |
| ELKM-AG-L 11,70           |         |         |         |          |           | 01TT011E  |           |
| ELKM-AG-N 11,70 (4 Joule) |         |         |         |          |           |           | 01TA011E  |
| ELKM-AG 11,70 (7 Joule)   |         |         |         |          |           |           | 01GA011E  |

### Cold ends 2,5 mm<sup>2</sup>

| Type                     | ELKM-A | ELKM-AS | ELKM-AE | ELKM-AG  | ELKM-AG-E | ELKM-AG-L | ELKM-AG-N |
|--------------------------|--------|---------|---------|----------|-----------|-----------|-----------|
| Article N°.              |        |         |         |          |           |           |           |
| ELKM-AS 7,20             |        | 0136002 |         |          |           |           |           |
| ELKM-AE 7,20             |        |         | 0137006 |          |           |           |           |
| ELKM-AG-N 7,20           |        |         |         | 01TA007E |           |           |           |
| ELKM-AG-E 7,20           |        |         |         |          | 01AA007E  |           |           |
| ELKM-AG-L 7,20           |        |         |         |          |           | 01TT007E  |           |
| ELKM-AG-N 7,20 (4 Joule) |        |         |         |          |           |           | 01TA007E  |

### Cold ends 4,0 mm<sup>2</sup>

| Type           | ELKM-A | ELKM-AS | ELKM-AE | ELKM-AG | ELKM-AG-E | ELKM-AG-L | ELKM-AG-N |
|----------------|--------|---------|---------|---------|-----------|-----------|-----------|
| Article N°.    |        |         |         |         |           |           |           |
| ELKM-AG-E 4,40 |        |         |         |         | 01AA004E  |           |           |

## (C) - CONNECTION SETS

This section provides information on the permissible combinations of the connection sets with the respective ELKM Types. The ELKM Types suitable for use with the respective connection sets are highlighted in colour. The possibility of use in potentially explosive atmospheres is indicated by the Ex symbol. Please be sure to observe the applicable operating instructions and data sheets for the connection sets.

### Connection sets for Ex-areas

#### Ex-Con 22/4 Si

ELKM-A

ELKM-AS

ELKM-AE

**ELKM-AG**

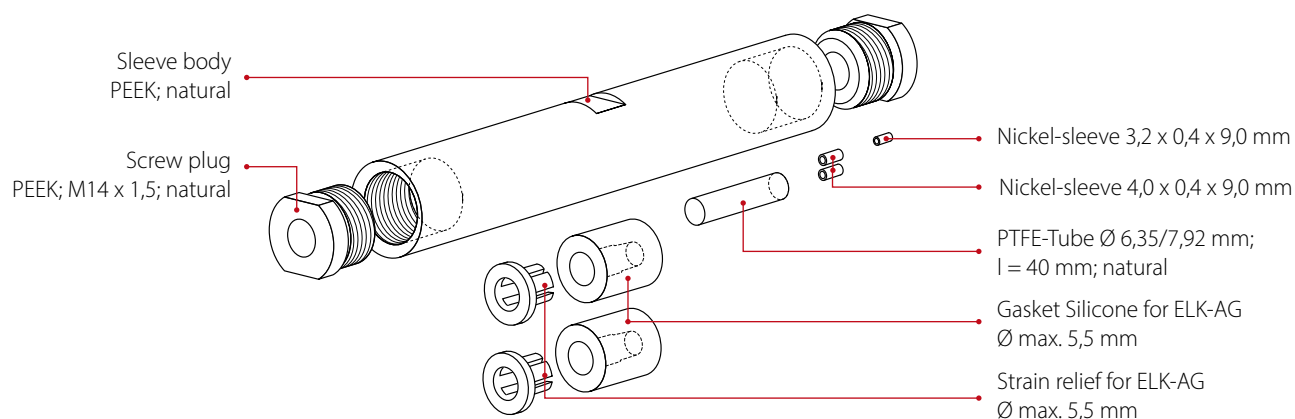
**ELKM-AG-E**

ELKM-AG-L

**ELKM-AG-N**

Ex- connection and repair - Set for ELKM-AG Trace heaters

Article N°: 0X81140



#### Ex-Con 25/7

ELKM-A

ELKM-AS

ELKM-AE

**ELKM-AG**

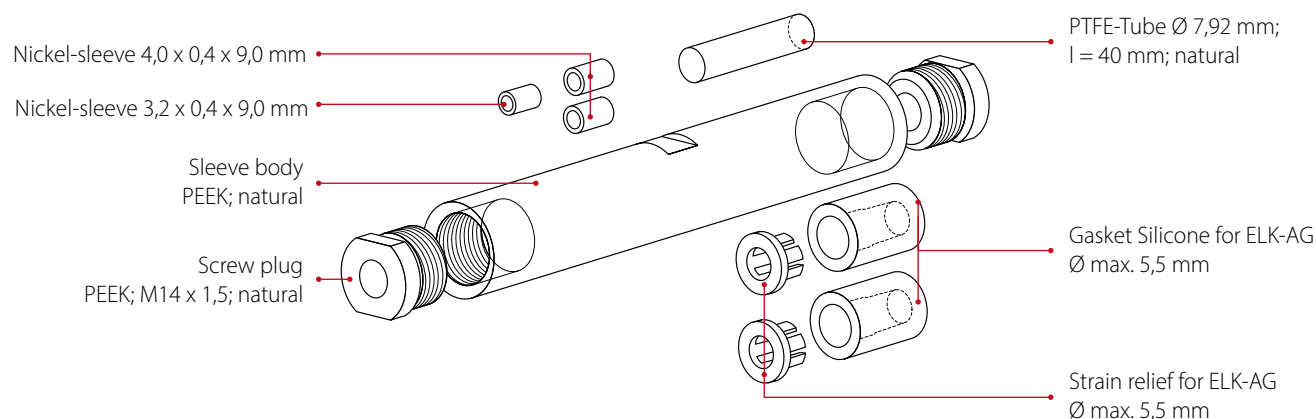
**ELKM-AG-E**

ELKM-AG-L

**ELKM-AG-N**

Ex- connection and repair - Set for ELKM-AG Trace heaters

Article N°: 0X81115



## Ex-Con 36/4

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

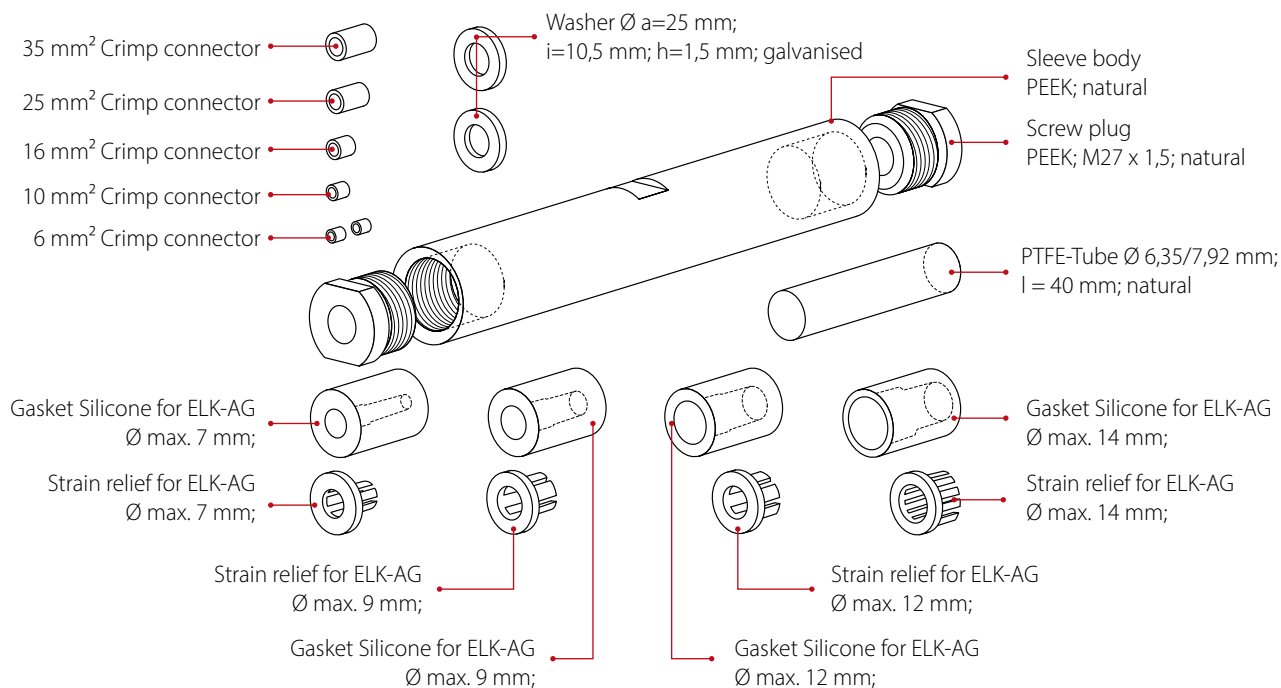
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

Ex- connection and repair - Set for ELKM-AG Trace heater

Article N°: 0X81120



## ELVB-AG-Ex

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

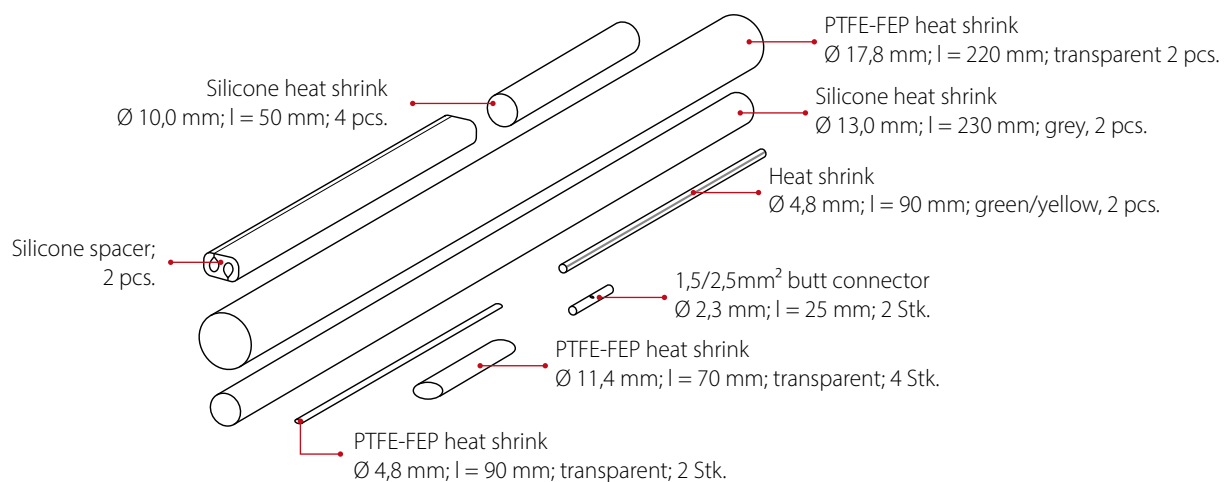
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

Ex- Splice kit for ELKM-AG Trace heater

Article N°: 0X81150



## Connection sets for non Ex-areas

### ELVB-22

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

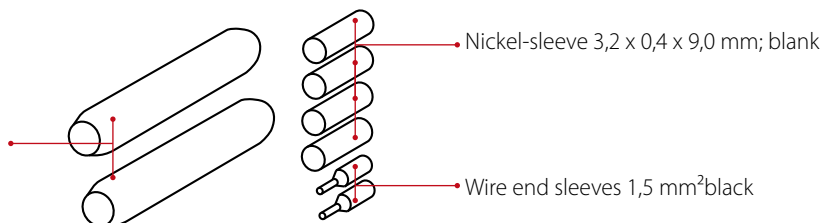
ELKM-AG-L

ELKM-AG-N

Connection-Set (Heat shrink) for 1,5 mm<sup>2</sup> cold ends

Article N°: 0911048

PTFE-FEP heat shrink Ø = 4,0 mm;  
l = 32 mm; transparent



### ELVB-26 & -30

ELKM-A

ELKM-AE

ELKM-AE

ELKM-AG

ELKM-AG-E

ELKM-AG-L

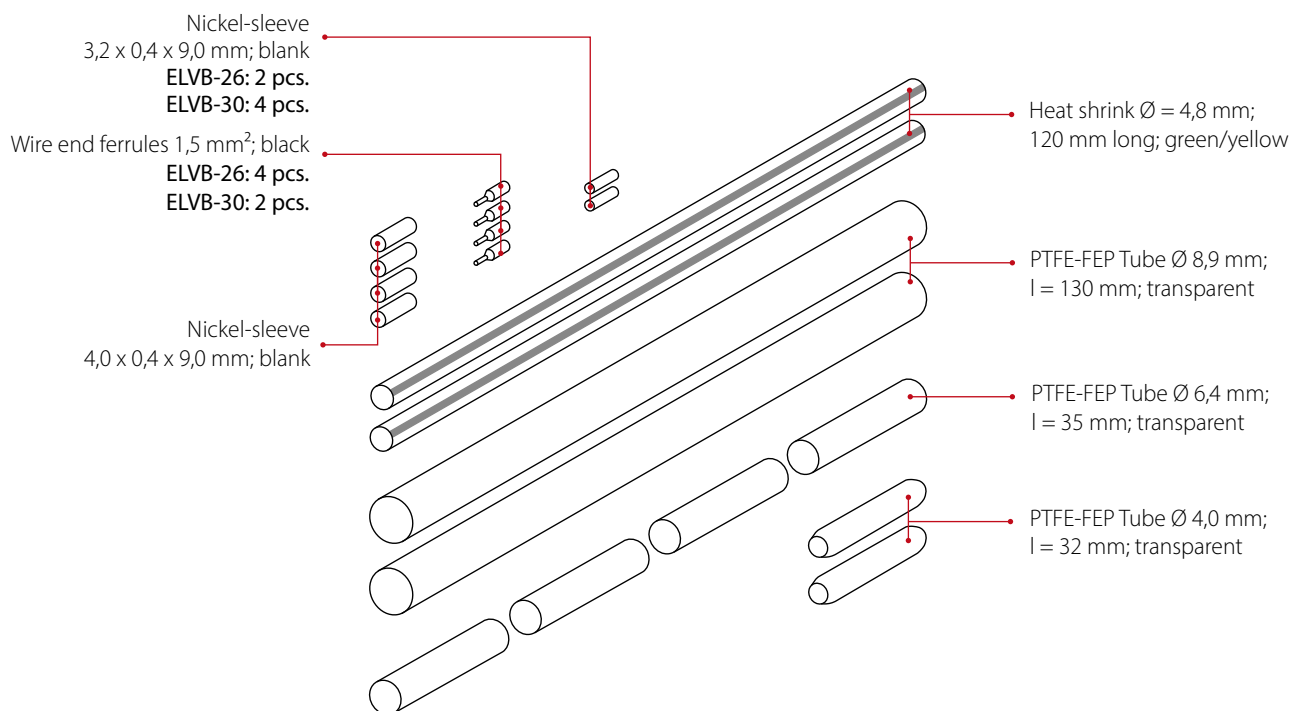
ELKM-AG-N

ELVB-26 - Connection-Set (Heat shrink) for 1,5 mm<sup>2</sup> ELKM-AE, -AS Trace heater

Article N°: 0911052

ELVB-30 - Connection-Set (Heat shrink) for 1,5 mm<sup>2</sup> ELKM-AG Trace heater

Article N°: 0911056



## ELVB-30-1A

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

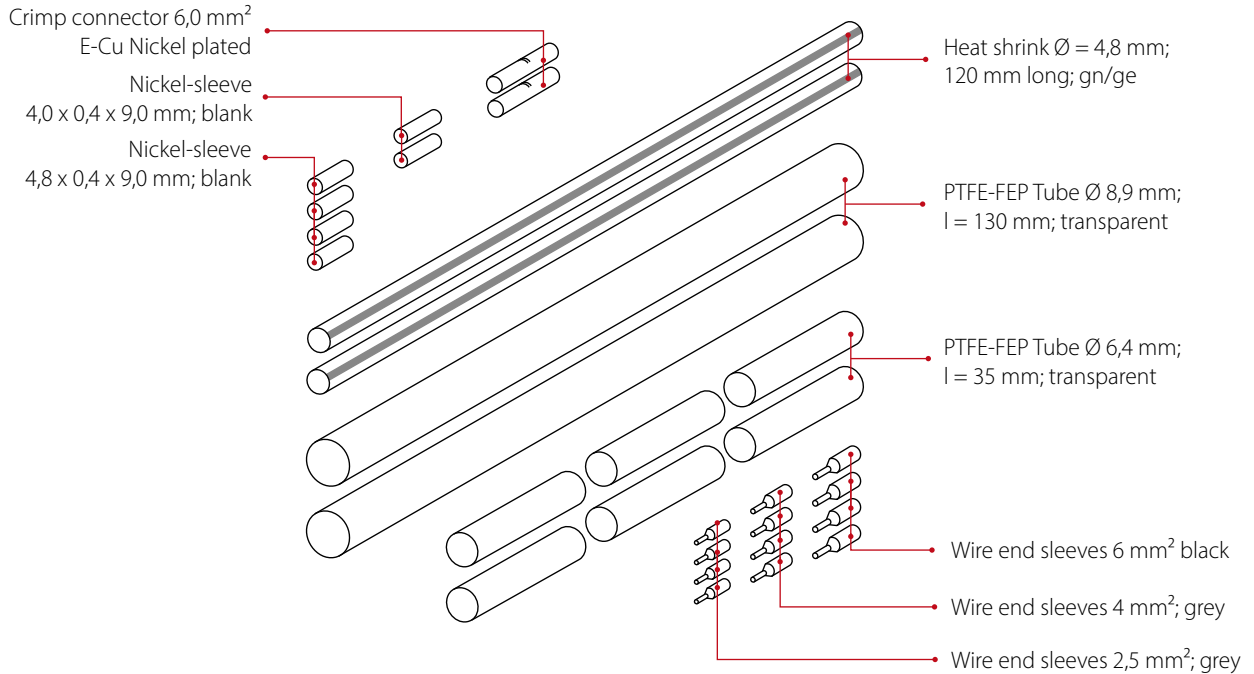
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

Connection-Set (Heat shrink) for 2,5 - 6,0 mm<sup>2</sup> ELKM-AG Trace heater

Article N°: 0911059



## (D) - JUNCTION BOXES

This section is intended to provide an overview of the eltherm junction boxes for use with the ELKM Heating cable. For detailed information about the junction boxes, please refer to the respective data sheets.

### Junction boxes for Ex-areas

## ELAK-Ex 2.00

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

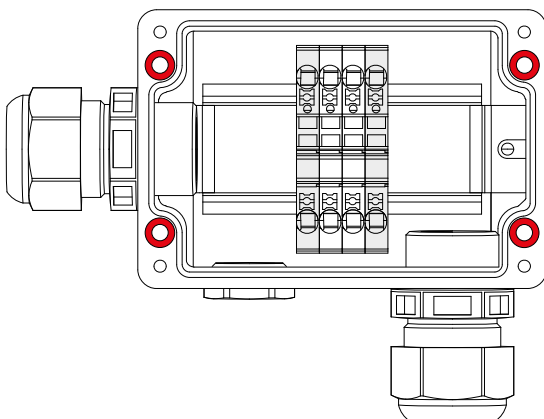
ELKM-AG-L

ELKM-AG-N

Ex- Junction box for 1x ELKM-AG Trace heater & 1x connection cable

Dimensions: 110 x 75 x 57 mm (WxHxD)

Article N°: 0X85200



- 1x M20 blind plug
  - 1x Cable gland M25 1-fold
  - 1x Cable gland M25 2-fold
  - 1x Reduction M25 to M20\*
  - 2x Feed-through terminal
  - 2x Protective conductor terminal block
- \*Enclosed, loose

■ Terminal for earthing or electrical protection

## ELAK-Ex 4.11

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

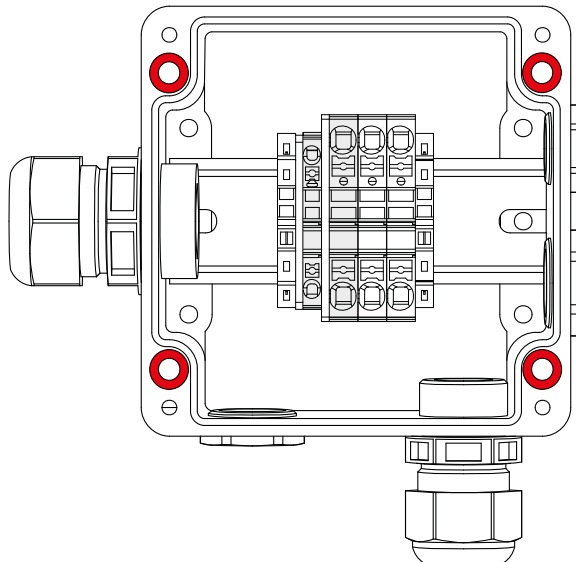
ELKM-AG-L

ELKM-AG-N

**Ex- Junction box for 1x ELKM-AG Trace heater & 1x Connection cable**

Dimensions: 122 x 120 x 90 mm (WxHxD)

Article N°: 0X85411



- 2x M25 Blind plug
  - 1x M20 Blind plug
  - 1x Cable gland M25 1-times\*
  - 1x Cable gland M32 1-times
  - 1x Reduction M32 auf M25\*
  - 2x Feed-through terminal PT6-Quattro
  - 1x Protective conductor terminal block PT6-Quattro-PE
- \*Enclosed, loose

 Terminal for earthing or electrical protection

## ELAK-Ex 4.12

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

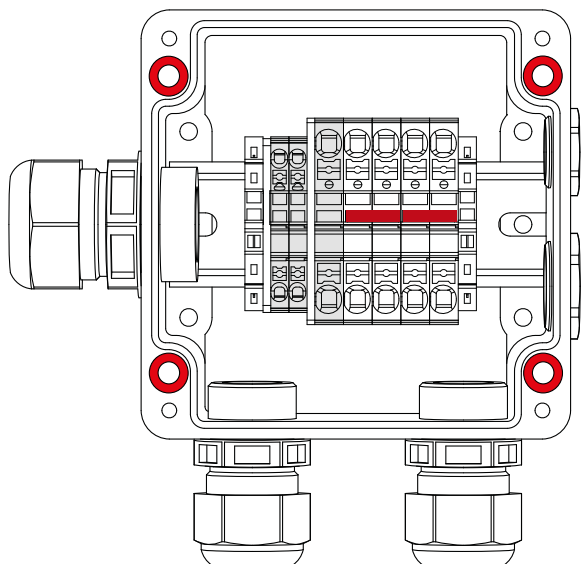
ELKM-AG-L

ELKM-AG-N

**Ex- Junction box for 2x ELKM-AG Trace heater & 1x Connection cable**

Dimensions: 122 x 120 x 90 mm (WxHxD)

Article N°: 0X85412



- 1x M25 Blind plug
  - 1x M20 Blind plug
  - 1x Cable gland M25 1-times\*
  - 1x Cable gland M32 1-times
  - 2x Cable gland M25 2-times
  - 1x Reduction M32 auf M25\*
  - 4x Feed-through terminal PT6
  - 1x Protective conductor terminal block PT6-PE
  - 2x Protective conductor terminal block PT2,5-PE
- \*Enclosed, loose

 Terminal for earthing or electrical protection

 Bridge (removable)

## ELAK-Ex 4.13

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

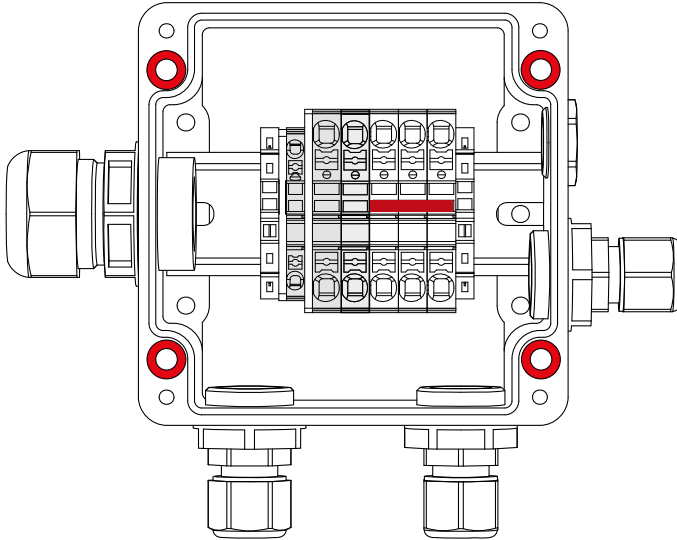
ELKM-AG-L

ELKM-AG-N

**Ex- Junction box for 3x ELKM-AG Trace heater & 1x Connection cable, or Star point**

Dimensions: 122 x 120 x 90 mm (WxHxD)

Article N°: 0X85413



- 1x M25 Blind plug\*
  - 1x M20 Blind plug
  - 1x Cable gland M32 1-times
  - 1x Cable gland M25 1-times\*
  - 3x Cable gland M16 1-times
  - 1x Reduction M32 auf M25\*
  - 1x Reduction M25 auf M16
  - 3x Feed-through terminal PT6
  - 1x Protective conductor terminal block PT6-PE
  - 1x Protective conductor terminal block PT2,5-PE
- \*Enclosed, loose

- Terminal for earthing or electrical protection
- Bridge (removable)

## ELAK-Ex-R1

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

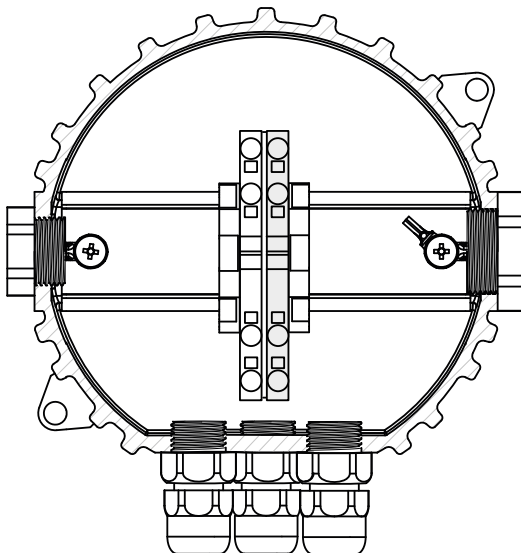
ELKM-AG-L

ELKM-AG-N

**ELAK-Ex R1 Junction box for star point ELKM-AG Trace heater**

Dimensions: (approx.) Ø 154,5 mm, Height 125 mm

Article N°: 0X80071



| Type                  | Qty. | Clamp range       |
|-----------------------|------|-------------------|
| Blind plug M20x1,5    | 1    | -                 |
| Blind plug M25x1,5    | 1    | -                 |
| Cable gland M16x1,5   | 3    | 4 - 10 mm         |
| Feed-through terminal | 1    | 6 mm <sup>2</sup> |
| Earth terminal        | 1    | 6 mm <sup>2</sup> |

- Terminal for earthing or electrical protection

## ELAK-Ex-R2

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

ELKM-AG-E

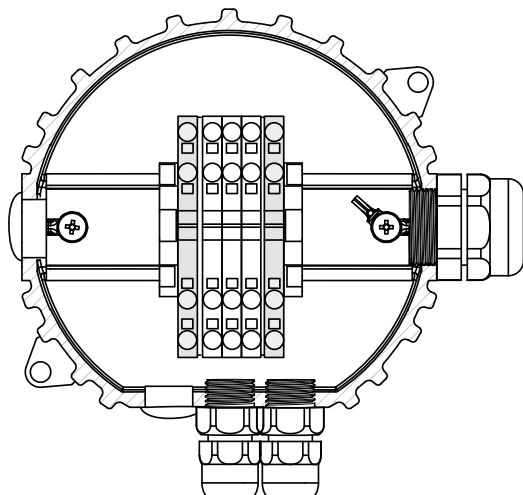
ELKM-AG-L

ELKM-AG-N

**ELAK-Ex R2 Junction box for 2 Phase or Star ELKM-AG Trace heater**

Dimensions: (approx.) Ø 154,5 mm, Height 125 mm

Article N°: 0X80072



| Type                  | Qty. | Clamp range       |
|-----------------------|------|-------------------|
| Blind plug M20x1,5    | 1    | -                 |
| Cable gland M25x1,5   | 1    | 9-13/12-17 mm     |
| Blind plug M16x1,5    | 1    | -                 |
| Cable gland M16x1,5   | 2    | 4 - 10 mm         |
| Earth terminal        | 2    | 6 mm <sup>2</sup> |
| Feed-through terminal | 3    | 6 mm <sup>2</sup> |

 Terminal for earthing or electrical protection

## Junction boxes for non Ex-areas

### ELAK-2

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

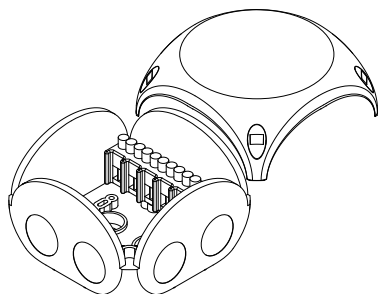
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

**Junction box for 1x ELKM-AG Trace heater & 1x connection cable**

Dimensions: 104 x 104 x 70 mm (WxHxD), Article N°: 0920030



- 7x Pre-stamped M20/M25
  - 2x Cable gland M25 1-times, Ø 9-17 mm\*
  - 2x Lock nut M25\*
  - 2x Sealing ring M25\*
  - 1x 5-pole terminal, 1,5-4 mm<sup>2</sup>
- \*Enclosed, loose

### ELAK-5

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

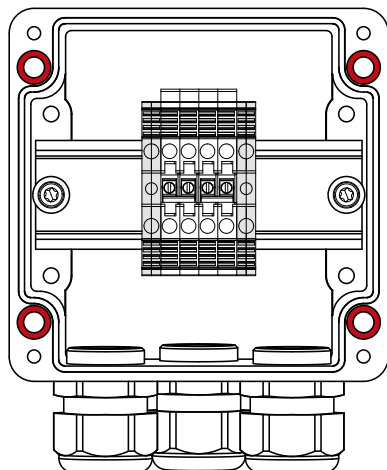
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

**Junction box for 1x ELKM-AG Trace heater & 1x Connection cable**

Dimensions: 122 x 120 x 90 mm (WxHxD), Article N°: 0920013



- 3x Cable gland M25, 9-17mm, 1-times
- 2x Protective conductor terminal block WPE4 4,0 mm<sup>2</sup>
- 4x Feed-through terminal WDU4 4,0 mm<sup>2</sup>
- 2x Bridge WQV 4/2 4,0 mm<sup>2</sup>

 Terminal for earthing or electrical protection

## ELAK-5.1

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

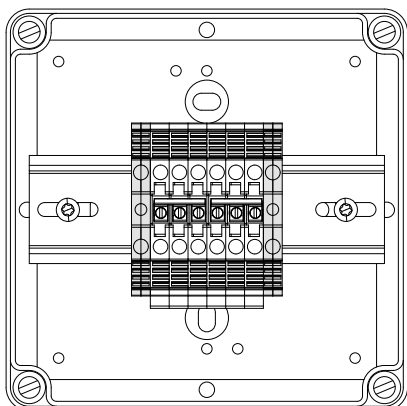
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

**Junction box for 1x ELKM-AG Trace heater & 1x Connection cable**

Dimensions: 130 x 130 x 75 mm (WxHxD), Article N°: 0920002



- 2x PE-Terminals 4 mm<sup>2</sup>
- 6x Feed-through terminal 4 mm<sup>2</sup>
- 2x triple bridge 1-3, 4-6

■ Terminal for earthing or electrical protection

## ELAK-R1

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

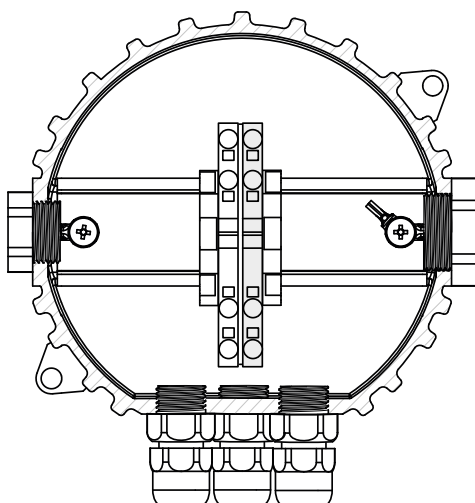
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

**Junction box for Star point ELKM-AG Trace heater**

Dimensions: (approx.) Ø 154,5 mm, Height 125 mm, Article N°: 0920051



| Type                  | Qty. | Clamp range       |
|-----------------------|------|-------------------|
| Blind plug M20x1,5    | 1    | -                 |
| Blind plug M25x1,5    | 1    | -                 |
| Cable gland M16x1,5   | 3    | 4 - 10 mm         |
| Feed-through terminal | 1    | 6 mm <sup>2</sup> |
| Earth terminal        | 1    | 6 mm <sup>2</sup> |

■ Terminal for earthing or electrical protection

## ELAK-R2

ELKM-A

ELKM-AS

ELKM-AE

ELKM-AG

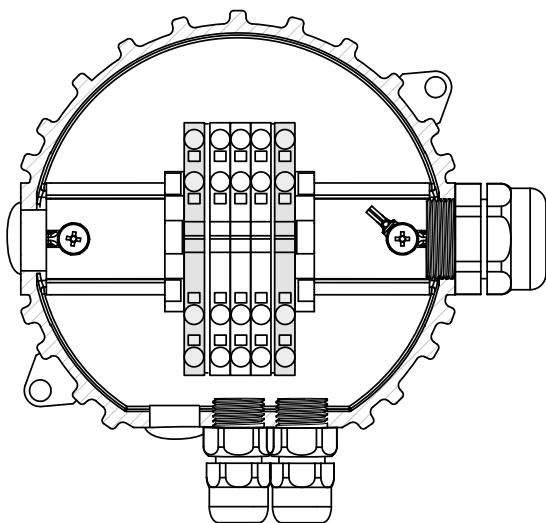
ELKM-AG-E

ELKM-AG-L

ELKM-AG-N

Junction box for Star point ELKM-AG Trace heater

Dimensions: (approx.) Ø 154,5 mm, Height 125 mm, Article N°: 0920051



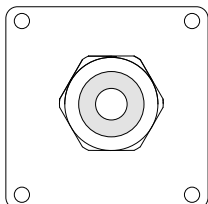
| Type                  | Qty. | Clamp range       |
|-----------------------|------|-------------------|
| Blind plug M20x1,5    | 1    | -                 |
| Blind plug M25x1,5    | 1    | -                 |
| Blind plug M16x1,5    | 1    | -                 |
| Cable gland M16x1,5   | 2    | 4 - 10 mm         |
| Feed-through terminal | 2    | 6 mm <sup>2</sup> |
| Earth terminal        | 3    | 6 mm <sup>2</sup> |

■ Terminal for earthing or electrical protection

## (H) - INSULATION BUSHINGS

### 1-times insulation bushing

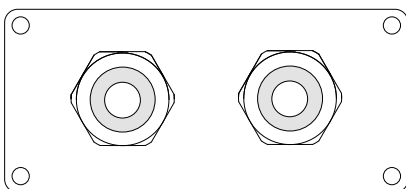
Dimensions: 70 x 70 mm, plate Aluminum



| Type       | Article-N°. | Cable gland | Sealing range |
|------------|-------------|-------------|---------------|
| ELISD-1.12 | 0921011     | 1x M12      | 3,5 - 7 mm    |
| ELISD-1.16 | 0921015     | 1x M16      | 4,5 - 10 mm-  |
| ELISD-1.20 | 0921019     | 1x M20      | 7 - 13 mm     |
| ELISD-1.25 | 0921023     | 1x M25      | 9 - 17 mm     |

### 2-times insulation bushing

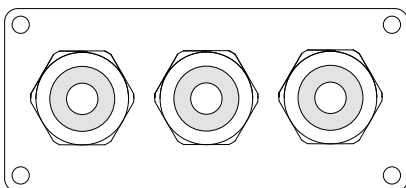
Dimensions: 100 x 40 mm, plate Aluminum



| Type       | Article-N°. | Cable gland | Sealing range |
|------------|-------------|-------------|---------------|
| ELISD-2.12 | 0921069     | 2x M12      | 3,5 - 7 mm    |
| ELISD-2.16 | 0921071     | 2x M16      | 4,5 - 10 mm-  |

### 3-times insulation bushing

Dimensions: 100 x 40 mm, plate Aluminum



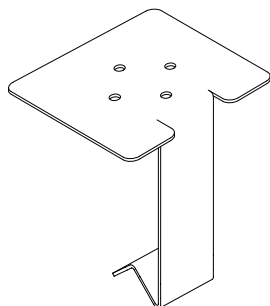
| Type       | Article-N°. | Cable gland | Sealing range |
|------------|-------------|-------------|---------------|
| ELISD-3.12 | 0921067     | 3x M12      | 3,5 - 7 mm    |
| ELISD-3.16 | 0921070     | 3x M16      | 4,5 - 10 mm   |

## (F) - MOUNTING BRACKET

### ELMW-6

Article N°: 0941006

Mounting bracket for ELAK-2 junction boxes (max. insulation thickness 80 mm)



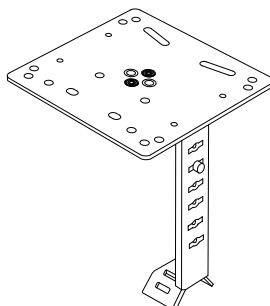
Enclosed every mounting bracket:

| Type                      | Qty. |
|---------------------------|------|
| Cylinder head screw M4x12 | 2    |
| Nut M4 self-locking       | 2    |
| Washer Ø 4,3              | 4    |

### EL-VSB 300

Article N°: 0941085

Variable mounting bracket for ELAK-Ex-2.00, -4.X, -R1, -R2 as well as ELAK-5, -5.1, -R1 & R2 junction boxes (max. Insulation thickness 280 mm)



Enclosed every mounting bracket:

| Type                      | Qty. |
|---------------------------|------|
| Cylinder head screw M6x30 | 4    |
| Cylinder head screw M4x25 | 4    |
| Nut M6 self-locking       | 4    |
| Nut M4 self-locking       | 4    |

## ORDERING INFORMATION

| ELKM-Type: |                                                      | Resistance [ $\Omega$ /km]                                                   | Ex article: | Order quantity: |
|------------|------------------------------------------------------|------------------------------------------------------------------------------|-------------|-----------------|
|            |                                                      |                                                                              |             |                 |
|            |                                                      |                                                                              |             |                 |
|            |                                                      |                                                                              |             |                 |
|            |                                                      |                                                                              |             |                 |
|            |                                                      |                                                                              |             |                 |
| Art.Nº:    | Description:                                         | Suitable for use:                                                            | Ex article: | Order quantity: |
| 0X81140    | <b>Ex-Con 22/4 Si</b><br>Ex- Connection & repair kit | ELKM-AG, -AG-E, -AG-N                                                        | Yes         |                 |
| 0X81115    | <b>Ex-Con 25/7</b><br>Ex- Connection & repair kit    | ELKM-AG, -AG-E, -AG-N                                                        | Yes         |                 |
| 0X81120    | <b>Ex-Con 36/4</b><br>Ex- Connection & repair kit    | ELKM-AG, -AG-E, -AG-N                                                        | Yes         |                 |
| 0X81150    | <b>ELVB-AG-Ex</b><br>Ex- Splice kit                  | ELKM-AG, -AG-E, -AG-N                                                        | Yes         |                 |
| 0911048    | <b>ELVB-22</b><br>Connection kit shrink technique    | ELKM-A                                                                       | No          |                 |
| 0911052    | <b>ELVB-26</b><br>Connection kit shrink technique    | ELKM-AE, -AS                                                                 | No          |                 |
| 0911056    | <b>ELVB-30</b><br>Connection kit shrink technique    | ELKM-AG, -AG-E, AG-L, -AG-N                                                  | No          |                 |
| 0911059    | <b>ELVB-30-1A</b><br>Connection kit shrink technique | ELKM-AG, -AG-E, AG-L, -AG-N                                                  | No          |                 |
| 0X85200    | <b>ELAK-Ex-2.00</b><br>Junction box Ex e             | 1x Supply line<br>1x ELKM-AG, -AG-E, -AG-N                                   | Yes         |                 |
| 0X85411    | <b>ELAK-Ex-4.11</b><br>Junction box Ex e             | 1x Supply line<br>1x ELKM-AG, -AG-E, -AG-N                                   | Yes         |                 |
| 0X85412    | <b>ELAK-Ex-4.12</b><br>Junction box Ex e             | 1x Supply line<br>1 to 2x ELKM-AG, -AG-E, -AG-N                              | Yes         |                 |
| 0X85413    | <b>ELAK-Ex-4.13</b><br>Junction box Ex e             | 1x Supply line<br>1 to 3x ELKM-AG, -AG-E, -AG-N                              | Yes         |                 |
| 0X80071    | <b>ELAK-Ex R1</b><br>Junction box Ex e               | 1x Supply line<br>1 to 3x ELKM-AG, -AG-E, -AG-N<br>Star connection           | Yes         |                 |
| 0X80072    | <b>ELAK-Ex R2</b><br>Junction box Ex e               | 1x Supply line<br>1 to 3 ELKM-AG, -AG-E, -AG-N<br>2-phase or star connection | Yes         |                 |
| 0920030    | <b>ELAK-2</b><br>Junction box Ex e                   | 1x Supply line<br>1x All ELKM                                                | No          |                 |
| 0920013    | <b>ELAK-5</b><br>Junction box Ex e                   | 1x Supply line<br>1x All ELKM                                                | No          |                 |

| Art.Nº: | Description:                                                | Suitable for use:                                                      | Ex article: | Order quantity: |
|---------|-------------------------------------------------------------|------------------------------------------------------------------------|-------------|-----------------|
| 0920051 | <b>ELAK-R1</b><br>Junction box                              | 1x Supply line<br>1 to 3x all ELKM<br>Star connection                  | No          |                 |
| 0920052 | <b>ELAK-R2</b><br>Junction box                              | 1x Supply line<br>1 to 3x all ELKM<br>2-phase or star connection       | No          |                 |
| 0921011 | <b>ELISD-1.12</b><br>Insulation bushing with aluminum plate | 1x All ELKM Ø3 to 6,5 mm                                               | No          |                 |
| 0921015 | <b>ELISD-1.16</b><br>Insulation bushing with aluminum plate | 1x All ELKM Ø4,5 to 10 mm                                              | No          |                 |
| 0921019 | <b>ELISD-1.20</b><br>Insulation bushing with aluminum plate | 1x All ELKM Ø7 to 13 mm                                                | No          |                 |
| 0921023 | <b>ELISD-1.25</b><br>Insulation bushing with aluminum plate | 1x All ELKM Ø9 to 17 mm                                                | No          |                 |
| 0921069 | <b>ELISD-2.12</b><br>Insulation bushing with aluminum plate | 2x All ELKM Ø3 to 6,5 mm                                               | No          |                 |
| 0921071 | <b>ELISD-2.16</b><br>Insulation bushing with aluminum plate | 2x All ELKM Ø4,5 to 10 mm                                              | No          |                 |
| 0921067 | <b>ELISD-3.12</b><br>Insulation bushing with aluminum plate | 3x All ELKM Ø3 to 6,5 mm                                               | No          |                 |
| 0921070 | <b>ELISD-3.16</b><br>Insulation bushing with aluminum plate | 3x All ELKM Ø4,5 to 10 mm                                              | No          |                 |
| 0941006 | <b>ELMW-6</b><br>Mounting bracket                           | ELAK-2                                                                 | No          |                 |
| 0941085 | <b>EL-VSB 300</b><br>Variable mounting bracket              | ELAK-Ex-2.00, ELAK-Ex-4.x<br>ELAK-Ex-Rx, ELAK-5, ELAK-5.1,<br>ELAK-Rx, | No          |                 |

## NOTES



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Visit our download area.



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